

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 03/04164

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N9/31

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 6 183 090 B1 (NAKANISHI HIROSHI ET AL) 6 February 2001 (2001-02-06) column 1, line 66 -column 2, line 28 column 15, line 21 -column 16, line 46 --- | 1-3,5,6, 10,15 |
| X | US 5 815 221 A (MYOI YASUHIRO ET AL) 29 September 1998 (1998-09-29) column 54, line 12 - line 44 column 54, line 61 -column 55, line 13 --- | 1-3,5,6, 10,15 |
| X | US 6 088 067 A (WILLETT STEPHEN J ET AL) 11 July 2000 (2000-07-11) column 3, line 13 -column 4, line 43; claim 14 --- | 1,2,5,6 10,12,13 |
| Y | | |
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

24 November 2003

Date of mailing of the international search report

02/12/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10, 31 August 1999 (1999-08-31) & JP 11 133414 A (SEIKO EPSON CORP), 21 May 1999 (1999-05-21) | 10, 12, 13 |
| A | abstract | 1 |
| A | EP 0 926 535 A (CITIZEN WATCH CO LTD) 30 June 1999 (1999-06-30) column 9, line 14 ~ line 39 | 1 |

INTERNATIONAL SEARCH REPORT

International Publication No

PCT/IB 03/04164

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|----|---------------------|---|--|
| US 6183090 | B1 | 06-02-2001 | JP 3444521 B2 JP 11015074 A | 08-09-2003 22-01-1999 |
| US 5815221 | A | 29-09-1998 | JP 8160374 A DE 19544780 A1 GB 2295743 A , B | 21-06-1996 13-06-1996 05-06-1996 |
| US 6088067 | A | 11-07-2000 | AU 692716 B2 AU 6377296 A BR 9609294 A CA 2224459 A1 CN 1191610 A DE 69625202 D1 EP 0835468 A1 JP 11508701 T TW 436653 B WO 9701780 A1 | 11-06-1998 30-01-1997 11-05-1999 16-01-1997 26-08-1998 16-01-2003 15-04-1998 27-07-1999 28-05-2001 16-01-1997 |
| JP 11133414 | A | 21-05-1999 | JP 3460578 B2 US 2003025845 A1 US 6529250 B1 | 27-10-2003 06-02-2003 04-03-2003 |
| EP 0926535 | A | 30-06-1999 | AU 8130598 A EP 0926535 A1 JP 3204512 B2 US 6271901 B1 CN 1115590 B WO 9904313 A1 JP 2001242450 A | 10-02-1999 30-06-1999 04-09-2001 07-08-2001 23-07-2003 28-01-1999 07-09-2001 |